

ABSTRACT OF THE DISCLOSURE

A metal vapor discharge lamp, comprises: a translucent ceramic envelope, the envelope comprising a center bulb for defining a discharge space and side tubes, the center bulb and the side tubes being integrally molded; a pair of current suppliers extending through hollows of the side tubes respectively, each of the current suppliers comprising an electrode and a lead-in wire, a first end of the electrode being disposed in the discharge space, a second end of the electrode being connected with the lead-in wire; a sealant for hermetically sealing open ends of the side tubes; and a light-emitting metal contained in the discharge space. An inner wall and an external wall of a seamless boundary portion between the center bulb and each of the side tubes have the smallest curvature radius of R_1 mm and R_0 mm, respectively. The center bulb has an inner diameter of D mm. The lamp has an electric power of P watts. The radius R_1 , radius R_0 , diameter D and electric power P satisfy, Formula (1):

$$-0.00076P + 0.304 \leq R_1/D \leq -0.00076P + 0.490,$$

where $P \leq 350$ watts; and Formula (2): $1.28R_0 \leq R_1 \leq 1.39R_0$.